

# Huan Yang

## List of Publications by Year in descending order

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52  
papers

1,936  
citations

218677

26  
h-index

243625

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g-index

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docs citations

53  
times ranked

2003  
citing authors

#	ARTICLE	IF	CITATIONS
1	Orbit Tomography of Binary Supermassive Black Holes with Very Long Baseline Interferometry. <i>Astrophysical Journal</i> , 2022, 927, 93.	4.5	3
2	Mass-gap extreme mass ratio inspirals. <i>Physical Review D</i> , 2022, 105, .	4.7	6
3	Black-hole perturbation theory with post-Newtonian theory: Towards hybrid waveforms for neutron-star binaries. <i>Physical Review D</i> , 2022, 105, .	4.7	1
4	Science potential for stellar-mass black holes as neighbors of Sgr $A^*$ . <i>Physical Review D</i> , 2022, 105, .	4.7	1
5	Using machine learning to parametrize postmerger signals from binary neutron stars. <i>Physical Review D</i> , 2022, 105, .	4.7	4
6	Toward observing neutron star collapse with gravitational wave detectors. <i>Physical Review D</i> , 2021, 103, .	4.7	9
7	Relating black hole shadow to quasinormal modes for rotating black holes. <i>Physical Review D</i> , 2021, 103, .	4.7	24
8	Formation rate of extreme mass ratio inspirals in active galactic nuclei. <i>Physical Review D</i> , 2021, 103, .	4.7	43
9	Wet extreme mass ratio inspirals may be more common for spaceborne gravitational wave detection. <i>Physical Review D</i> , 2021, 104, .	4.7	27
10	Mimicking Kerr's multipole moments. <i>Physical Review D</i> , 2021, 104, .	4.7	4
11	First Constraints on Nuclear Coupling of Axionlike Particles from the Binary Neutron Star Gravitational Wave Event GW170817. <i>Physical Review Letters</i> , 2021, 127, 161101.	7.8	21
12	Supercritical Accretion of Stellar-mass Compact Objects in Active Galactic Nuclei. <i>Astrophysical Journal</i> , 2021, 923, 173.	4.5	19
13	Probing Crust Meltdown in Inspiring Binary Neutron Stars. <i>Physical Review Letters</i> , 2020, 125, 201102.	7.8	16
14	Orbit-induced Spin Precession as a Possible Origin for Periodicity in Periodically Repeating Fast Radio Bursts. <i>Astrophysical Journal Letters</i> , 2020, 893, L31.	8.3	51
15	Quantum correlations of light mediated by gravity. <i>Physical Review A</i> , 2020, 101, .	2.5	34
16	Dynamic signatures of black hole binaries with superradiant clouds. <i>Physical Review D</i> , 2020, 101, .	4.7	43
17	Probing the Growth of Massive Black Holes with Black Hole-Host Galaxy Spin Correlations. <i>Astrophysical Journal</i> , 2020, 901, 163.	4.5	3
18	Exploring the sensitivity of gravitational wave detectors to neutron star physics. <i>Physical Review D</i> , 2019, 99, .	4.7	78

#	ARTICLE	IF	CITATIONS
19	Black hole discharge: Very-high-energy gamma rays from black hole-neutron star mergers. <i>Physical Review D</i> , 2019, 100, .	4.7	13
20	Tidal Resonance in Extreme Mass-Ratio Inspirals. <i>Physical Review Letters</i> , 2019, 123, 101103.	7.8	56
21	Gravitational floating orbits around hairy black holes. <i>Physical Review D</i> , 2019, 99, .	4.7	41
22	Inspiralling eccentric binary neutron stars: Orbital motion and tidal resonance. <i>Physical Review D</i> , 2019, 100, .	4.7	19
23	Relativistic mean motion resonance. <i>Physical Review D</i> , 2019, 100, .	4.7	14
24	Extreme gravity tests with gravitational waves from compact binary coalescences: (II) ringdown. <i>General Relativity and Gravitation</i> , 2018, 50, 1.	2.0	216
25	Gravitational wave spectroscopy of binary neutron star merger remnants with mode stacking. <i>Physical Review D</i> , 2018, 97, .	4.7	59
26	Can We Distinguish Low-mass Black Holes in Neutron Star Binaries?. <i>Astrophysical Journal</i> , 2018, 856, 110.	4.5	50
27	Physics of Pair Producing Gaps in Black Hole Magnetospheres. <i>Astrophysical Journal Letters</i> , 2018, 863, L31.	8.3	31
28	Towards the design of gravitational-wave detectors for probing neutron-star physics. <i>Physical Review D</i> , 2018, 98, .	4.7	42
29	Probing gravitational parity violation with gravitational waves from stellar-mass black hole binaries. <i>Physical Review D</i> , 2018, 97, .	4.7	33
30	Evolution of highly eccentric binary neutron stars including tidal effects. <i>Physical Review D</i> , 2018, 98, .	4.7	35
31	Magnetosphere of a spinning black hole and the role of the current sheet. <i>Physical Review D</i> , 2018, 98, .	4.7	11
32	Testing Gravitational Memory Generation with Compact Binary Mergers. <i>Physical Review Letters</i> , 2018, 121, 071102.	7.8	24
33	Global Crustal Dynamics of Magnetars in Relation to Their Bright X-Ray Outbursts. <i>Astrophysical Journal</i> , 2017, 841, 54.	4.5	43
34	Black Hole Spectroscopy with Coherent Mode Stacking. <i>Physical Review Letters</i> , 2017, 118, 161101.	7.8	81
35	Testing gravity with pulsar scintillation measurements. <i>Physical Review D</i> , 2017, 95, .	4.7	4
36	General relativistic dynamics of an extreme mass-ratio binary interacting with an external body. <i>Physical Review D</i> , 2017, 96, .	4.7	24

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37	PLASMA-WAVE GENERATION IN A DYNAMIC SPACETIME. <i>Astrophysical Journal</i> , 2016, 817, 183.	4.5	8
38	Coupled oscillator model for nonlinear gravitational perturbations. <i>Physical Review D</i> , 2015, 91, .	4.7	13
39	Magnetosphere of a Kerr black hole immersed in magnetized plasma and its perturbative mode structure. <i>Physical Review D</i> , 2015, 91, .	4.7	18
40	Turbulent Black Holes. <i>Physical Review Letters</i> , 2015, 114, 081101.	7.8	56
41	Quasinormal modes of weakly charged Kerr-Newman spacetimes. <i>Physical Review D</i> , 2015, 91, .	4.7	43
42	Towards an understanding of the force-free magnetosphere of rapidly spinning black holes. <i>Physical Review D</i> , 2014, 90, .	4.7	21
43	Stability of force-free magnetospheres. <i>Physical Review D</i> , 2014, 90, .	4.7	18
44	Scalar Green function of the Kerr spacetime. <i>Physical Review D</i> , 2014, 89, .	4.7	17
45	Wavefront twisting by rotating black holes: Orbital angular momentum generation and phase coherent detection. <i>Physical Review D</i> , 2014, 90, .	4.7	8
46	Quantum limits of interferometer topologies for gravitational radiation detection. <i>Classical and Quantum Gravity</i> , 2014, 31, 165010.	4.0	31
47	Brownian thermal noise in multilayer coated mirrors. <i>Physical Review D</i> , 2013, 87, .	4.7	56
48	Macroscopic Quantum Mechanics in a Classical Spacetime. <i>Physical Review Letters</i> , 2013, 110, 170401.	7.8	100
49	Quasinormal modes of nearly extremal Kerr spacetimes: Spectrum bifurcation and power-law ringdown. <i>Physical Review D</i> , 2013, 88, .	4.7	92
50	Branching of quasinormal modes for nearly extremal Kerr black holes. <i>Physical Review D</i> , 2013, 87, .	4.7	66
51	Quasinormal-mode spectrum of Kerr black holes and its geometric interpretation. <i>Physical Review D</i> , 2012, 86, .	4.7	137
52	Quantum back-action in measurements of zero-point mechanical oscillations. <i>Physical Review A</i> , 2012, 86, .	2.5	56